Title (en)

Friction stir welding method and apparatus therefore

Title (de)

Drehendes Reibungsschweissverfahren und Vorrichtung dafür

Title (fr)

Méthode de soudage par friction à mouvement cyclique et dispositif correspondant

Publication

EP 1236533 A1 20020904 (EN)

Application

EP 02001878 A 20020128

Priority

JP 2001036326 A 20010214

Abstract (en)

[origin: US2002109002A1] Joining flange portions F1, F2 which are previously formed on members W1, W2 to be joined are caused to butt on each other to form an edge joint. A projecting rod 3 of an agitation rod 1 is inserted in an opposition gap between end portion inner faces S1, S2 from the side of end faces E1, E2 of the joining flange portions F1, F2 so that a shoulder face 4 of the agitation rod 1 is brought in close contact with the end faces E1, E2. A frictional agitation joining is continuously performed on the joining flange portions F1, F2 curved in 3-dimensional manner by feeding the joining flange portions F1, F2 in their longitudinal directions while rotating the agitation rod 1.

IPC 1-7 (main, further and additional classification)

B23K 20/12; B60G 7/00

IPC 8 full level (invention and additional information)

B23K 20/12 (2006.01); **B23K 33/00** (2006.01); B23K 103/10 (2006.01)

CPC (invention and additional information)

B23K 33/00 (2013.01); **B23K 20/126** (2013.01)

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DE FR GB

DOCDB simple family

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